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JP05173194A
ELECTROPHORETIC DISPLAY DEVICE
NIPPON MEKTRON LTD

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Application No. 03355954, **Filed** 19911220, **Published** 19930713

Abstract: PURPOSE: To provide the electrophoretic display device having a long service life, which can maintain a desired display state for a long period by suppressing deterioration of a dispersed system.

CONSTITUTION: In the case of constituting the electrophoretic display device for executing a necessary display operation by enclosing a dispersed system 15 containing electrophoretic particles between a pair of counter electrode plates 11, 13 in which at least one of them is transparent, and absorbing and separating the electrophoretic particles to and from the transparent electrode plate side under an action of a display driving voltage applied between the electrode plates 11, 13, this device is constituted so that an application time of the display driving voltage is limited to the shortest time when a necessary contrast is obtained.

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Int'l Class: G02F001167 G09F00937

MicroPatent Reference Number: 000170997

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Application No. 03353490, **Filed** 19911217, **Published** 19930629

Abstract: PURPOSE: To provide a high reliability electrophoretic display device which is strong against physical shocks by furnishing a metal plate on the outer surface of a flexible sheet constituting, if the case is such, one of the electrode plates, thereby isolating the flexible sheet from the atmosphere, keeping constant the water/moisture contained in a dispersion system, and reinforcing the display device structurally with this metal plate.

CONSTITUTION: A porous spacer 12 is interposed between electrode plates for dividing a dispersion system 7 uncontinuously while a flexible sheet 13 is used to form one of the counter-electrode plates, and from them an electrophoretic display device is constructed, wherein a metal plate 17 having favorably a coefficient of linear expansion approximate to that of the base material to a transparent electrode plate is provided over the outer surface of the flexible sheet 13.

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MicroPatent Reference Number: 000170799

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